

... of Adsorption and Methods of
... Analysis, by L. A. Koskhina, V. G.
... 5 pp.

... per, Merzhimija, Vol. 1, No 4, 1961,
... 575.

REL Tr Bulletin
Vol. 4, No 5, 1962

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... 52

203,799

Thermal Alkylation of Methylcyclohexane With
Olefins Under Pressure, by N. M. Nazarova,
E. L. Kh. Freylin, et al., 11 pp.

RUSSIAN, per, Dostizheniya, Vol. 1, No 5, 1961.
no 617 2111618. 9567803

FID-FT-62-1185

Sci-Chem
Mar 63

223,646

Alkylating Tetrahydronaphthalene by Olefins in the
Aliphatic Ring, by L. Kh. Freydlin, N. M. Nazarova,
8 pp.

RUSSIAN, Izv. Akad. Nauk SSSR, Ser. Khim. Nauk, No 5, 1961,
pp 619-623. 9587803
FTD-FT-62-1185

Sci-Chem
Mar 63

223,647

Oxidation of Hydrocarbons With a High Degree of
Conversion, by L. K. Gushova, V. H. Gol'dberg,
et al., 3 pp.

RUSSIAN, *Neftshimiya*, Vol I, No 5, 1961,
pp 659-671. 966780

9
REF ID: A62-1105

Sol Chem
Mar 63

203, 041

TT-64-10786

I. Kamzolkin, V. V.
II. Rashtirov, A. N.
III. Sokova, K. M.

Kamzolkin, V. V., Rashtirov, A. N., Sokova, K. M.
and others.

CONVERSIONS OF HIGHER ALIPHATIC ALCOHOLS
IN THEIR LIQUID-PHASE OXIDATION. [1963] 14p

29 refs
Order from OTS, SLA, or ETC \$1.60 TT-64-10786

Trans. of Neftkimiya (USSR) 1961, v. 1 [no. 5]
p. 675-682. (Abstract available)

DESCRIPTORS: *Alcohols, *Oxidation, Molecular
structure, *Esters, *Ketones, Synthesis (Chemistry).

It was established that during liquid-phase oxidation of
higher n-aliphatic alcohols oxidation reactions occur
also in the alkyl part of molecule with formation of
bifunctional compounds, the portion of which in reac-
tion products varies as function of OH-group position in
the molecule. This portion drops with OH-group dis-
placement from end of chain toward middle of chain.
(Chemistry--Organic, IT, v. 11, no. 9) (over)

Office of Technical Services

63-12823

Grishina, O. N. and Sabirova, R. Z.
SYNTHESIS OF DICHLORIDES OF ALKYLPHOSPHONIC
ACIDS FROM n-PARAFFINIC HYDROCARBONS BY
THE METHOD OF OXIDATIVE PHOSPHONATION.
[1963] 5p.
Order from ATS \$7.50 ATS-81Q66R

Trans. of Neftekhimiya (USSR) 1961, v. 1, no. 6,
p. 796-799.

DESCRIPTORS: *Hydrocarbons, *Phosphonic acids,
*Alkyl radicals, *Chlorides, Synthesis.

(Chemistry--Organic, IT, v. 10, no. 3)

- I. Title: Oxidative
Phosphonation
- I. Grishina, O. N.
- II. Sabirova, R. Z.
- III. ATS-81Q66R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-4023

Office of Technical Services

Investigation of the Recombination Products of Alkyl
Radicals in Liquid-Phase ~~XXXXXX~~ Radiolysis of
Hexane, by N. A. Belikova, V. G. Berezkin,
15 pp.

RUSSIAN, PER, Neftekhimiya, 1, No 6, 1961,
pp 828-835. 9679696

FTD-TT-62-1270

Sci-Chem, Phys
Mar 63

224,810

Eidus, Ya. T., Nefedov, B. K., and Lobzova, A. V.
CATALYTIC POLYMERIZATION OF OLEFINS. PT. 15.
LIQUID PRODUCTS OF ETHYLENE POLYMERIZA-
TION ON THE CATALYST NICKEL-OXIDE-ALUMINO-
SILICATE, UNDER HIGHER PRESSURE. [1963] [9]p.
Srefs.

Order from OTS, SLA, or ETC \$1.10 TT-63-18842

Trans. of *Neftekhimiya* (USSR) 1962, v. 2 [no. 1]
p. 21-27. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Ethylenes,
Polymerization, *Catalysts, *Nickel catalysts,
*Aluminum compounds, *Silicates, Liquids, Hydro-
carbons, Raman spectroscopy

The polymerization of ethylene on impregnated
NiO-aluminoasilicate catalyst at 275-300 C under
5-30 atm. in a space velocity range from 100 to 2,000
(Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-18842

- I. Eidus, Ya. T.
- II. Nefedov, B. K.
- III. Lobzova, A. V.
- IV. Title: Liquid products of ethylene polymerization on the catalyst nickel-oxide-alumino-silicate, under higher pressure.

Office of Technical Services

Catalytic Properties of Rhenium-Aluminum-Palladium
Catalysts in the Reactions of Hydrocarbons and
Their Mixtures, by M. A. Ryashentseva.
RUSSIAN, per, Neftekhimiya, No 1, 1962, pp 37-40.
NEC 72-14391-07D

Jan 73

Energy Transfer in the Radiolysis of Hydrocarbons, by A. M. Brodskiy, Yu. A. ~~KOLBANOVSKIY~~ Kolbanovskiy, et al, 24 pp.

RH RUSSIAN, per, Neftekhimiya, Vol II, No 1, 1962, pp 54-67. 9213640

AEC-tr-5900

Sci-Phys

Sep 63

345, 241

The Influence of the Structure of Hydrocarbons
on the Formation of Radicals During Low-Temperature
Gamma-Radiolysis in the Solid Phase, by O. I.
Lopatin, L. S. Polak, 6 pp.

RUSSIAN, per, Neftokhimiya, Vol. 11, 1962, pp 68-70.

9213087

ABO-Tr-561

Sci - Inorg Sol

Aug 63

343,639

Isolation of Methylcyclopentane and Cyclohexane
From Petroleum Fractions by Ye. M. Bonashvili,
8 pp.

RUSSIAN, part, Neftokhimiya, Vol 2, No 2, 1962,
pp 160-163. 3669968

PHD-11-63-563

Sci - Chem

344,689

Sept 63

63-18750

Polyanskii, N. G., Markevich, S. M. and others.
THE SELECTIVE EXTRACTION OF ISOAMYLENES
FROM HYDROCARBON MIXTURES. [1963] [8p].

12 refs.

Order from OTS or SLA \$1.10

63-18750

1. Title: Isoamylenes
- I. Polyanskii, N. G.
- II. Markevich, S. M.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 2].
p. 164-169.

DESCRIPTORS: Pentanes, *Methyl radicals, *Butenes,
Alcohols, Petroleum, Ion exchange resins, Hydro-
carbons, Mixtures.

It was found that only the tertiary amylenes, of all
C₅-olefins in pentane-amylenic fraction, are hydrated
in the presence of H-cation exchanging resin KU-2 at
75°C. Under dynamic conditions, the conversions of
amylenes per pass were unaffected by water addition to
the catalyst. T-amylic alcohol could be produced at
any dilution of the t.-amylenes on the ion-exchanger by
(Chemistry--Organic, TT, v. 10, no. 11) (over)

3.

Office of Technical Services

Effect of Heat Treatment of Aluminosilicate
Catalysts in Vacuo on their Structure, by
K.V. Topchieva and E.N. Rosolovskaya.
RUSSIAN, per, Neftekhimiya, 1962, vol.2,
no.2, pp. 175-178.

ATS-83 R 76 R

Mat/Metal
Aug 66

307,697

63-18848

Sharaev, O. K., Topchieva, K. V. and others.
THE NATURE OF INDUCTION PERIOD IN ETHYLENE
POLYMERIZATION ON CHROMIA CATALYST.
[1963] 2p. 1 ref.
Order from OTS or SLA \$1.10 63-18848

I. Sharaev, O. K.
II. Topchieva, K. V.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 2]
p. 187-188.

DESCRIPTORS: *Polyethylene plastics, *Ethylenes,
Polymerization, *Chromium catalysts, Solvents,
*Octanes.

Experimental results of chromia catalyst treatment by
isooctane confirmed that formation of the catalytic
activity occurs during the induction period because of
a reduction of the hexavalent chromium catalyst under
the action of reagent- the ethylene. (Author)

(Materials--Plastics, TT, v. 10, no. 12)

Office of Technical Services

R-1122-U

Radiation Thermal Cracking of Hydrocarbons (USSR),
by Topchiyer, A. V.

RUSSIAN, per, Neftekhimiya, Vol II, No 2, 1962,
pp: 196-210.

*JPRS/Pedstone Arsenal

Sci-Phys
Feb 65

TT-64-12748

Smirnov, O. K. and Grineva, N. I.
CONJUGATED OXIDATION OF PHOSPHORUS
TRICHLORIDE AND MIXTURES OF ALIPHATIC
HYDROCARBONS. [1964] 6p
Order from ATS \$7.75

ATS-34Q74R

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 2,
p. 237-241.

(Chemistry--Organic, TT, v. 11, no. 12)

I. Smirnov, O. K.
II. Grineva, N. I.
III. ATS-34Q74R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-18752

Shokova, E. A., Khromov, S. I. and others.
CATALYTIC REARRANGEMENTS OF CYCLONONANE
AND CYCLODECANE IN THE PRESENCE OF A
NICKEL CATALYST. [1963] [10]p. 10 refs.
Order from OIS or SIA \$1.10 63-18752

1. Title: Cyclodecane
2. Title: Cyclononane
1. Shokova, E. A.
- II. Khromov, S. I.

Trans. of Vsesoyuzniya (USSR) 1962, v. 2, p. 280-287.

DESCRIPTORS: *Methanes, *Octanes, *Cyclohexanes,
*Methyl radicals, *Cyclopentanes, *Heptanes,
*Nickel catalysts, Raman spectroscopy, Kieselguhr,
Benzenes, Catalysis.

Catalytic conversions of cyclononane and cyclodecane
were studied in the presence of nickel upon kieselguhr
and in a stream of hydrogen at 200 and 250 C. The sub-
stances undergo under these conditions a transannular
dehydrocyclization, a direct hydrogenolysis and a
stepwise isomerization of their cycles. The reaction
products of cyclononane were n-nonane, n-octane,
(Chemistry--Organic, JT, v. 10, no. 12) (over)

Office of Technical Services

Sterligov, O. D. and Rozhkova, M. I.
CONTINUOUS ISOMERIZATION OF THE 2-METHYL-
BUTENES-2 AND -1 [INTO] 3-METHYLBUTENE-1.
[1963] [3]p. 3 refs.

Order from OTS or SLA \$1.10

63-18846

Trans. of Neftkimiya (USSR) 1962, v. 2, p. 288-290.

DESCRIPTORS: *Butenes, Methyl radicals, *Molecular
isomerism, Synthesis (Chemistry), Catalysts, Alumi-
num compounds, Oxides, Fractionation,
Polyethylene plastics.

The possibility of a continuous process for the synthesis
of 3-methylbutene-1 is shown, based on the isomeriza-
tion of the two other isoamylenes on active aluminum
oxide and a subsequent fractionation in efficient lab-
oratory columns. Process continuity was reached
through combination of the isomerization and fractiona-
(Chemistry--Organic, TT, v. 10, no. 12) (over)

63-18846

1. Title: 2-Methyl 1-butene
 2. Title: 2-Methyl 2-butene
 3. Title: 3-Methyl 1-butene
- I. Sterligov, O. D.
 - II. Rozhkova, M. I.

Office of Technical Services

TT-64-14945

Topchieva, K. V. and Rosol'skaya, E. N.
EFFECT OF DEHYDRATION OF ALUMINOSILICATE
CATALYST ON ITS ACIDITY. [1964] 9p 14 refs
Order from OTS [SLA] or BTC 51.10 TT-64-14945

I. Topchieva, K. V.
II. Rosol'skaya, E. N.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 3]
p. 298-304

OTS-TT-64-22257

(Chemistry--Physical, TT, v. 11, no. 11)

Office of Technical Services

Preparation of Stereospecific Polymers by
γ-Irradiation of Inclusion Complexes, by
O. Glavati, I. Polak.

RUSSIAN, part, *Neftekhimiya*, ~~1962~~, 1962, pp 318-323.

Vol II, No 3

CSIRO/No 6196 (1972)

OTS 63-19910 (9/19-1/60)

OTS 63-19910 (9/19-1/60)

341,999

Sci-Chem

AUG 65

TT-64-16687

Mavlyuzova, E. G., Vigulyarov, G. N., and
Imaev, M. G.
VAPOR-PHASE OXIDATION OF PETROLEUM RAW-
MATERIAL TO FIBRILIC ANHYDRIDE IN A FLUID-
IZED CATALYST BED. 12p 4refs
Order from DTIC, SLA, or ETC \$1.60 TT-64-16687

Trans. of Neftekhimya (USSR) 1962, v. 2, [no. 3]
p. 362-367.

(Chemistry--Organic, TT, v. 12, no. 4)

I. Mavlyuzova, E. G.
II. Vigulyarov, G. N.
III. Imaev, M. G.

Office of Technical Services

Effect of the Reagent Structures and
Molecular Weights on the Reaction of
Aliphatic Alcohols with Primary Amines,
by G. A. Klinger, An N. Bashkurov,
Kuang-yu Liu, Yu. B. Kagan, 13p.
RUSSIAN, par. Metabolizms, Vol. 2,
No 3, 1962, pp 384-390.
SLA TR-65-10232

333, 824

Sci
Aug 67

63-10665

Vigderhaus, M. S., Holbert, K. A. and others
GAS PARTITION CHROMATOGRAPHY OF ISOBUTANE
OXIDATION PRODUCTS. [1962] 11p. (figs. omitted)
refs.

I. Vigderhaus, M. S.
II. Holbert, K. A.

Order from OTS or SLA \$1.60 63-10665

Trans. of Nefekhimiya (USSR) 1962, v. 2, no. 3,
p. 410-412.

DESCRIPTORS: Chemical analysis, Liquids, Oxidation, Hydrocarbons, *Hydrogen peroxide, *Chromatographic analysis, *Gas chromatography, *Butanes, Polymerization.

Analysis techniques of oxidation products of isobutane that is reduced to hydrogen peroxide were developed. Analysis of raw material and residual gas formed in oxidation process were developed. (Author)

Office of Technical Services

(Chemistry--Analytical, TT, v. 9, no. 10)

TWELFTH CONFERENCE ON HIGH MOLECULAR COMPOUNDS
DEVOTED TO MONOMERS, BY M. A. DALIN, T. I.
CHERNYSHEVA, 13 PP.

RUSSIAN, PER, NEFTAKHIMIYA, VOL 11, NO 3, 1962.
PP 415-419

JPRS 15803

SCI-CHEM

OCT 62

215,001

REVIEW OF THE PROCEEDINGS OF THE SCIENTIFIC
AND TECHNICAL CONFERENCE ON ADDITIVES TO OILS
AND FUELS, BY YE. S. SHCHEPELEVA, AND V. V.
SHER, 10 PP.

RUSSIAN, PER, NEFTEKHIMIYA, VOL 11 NO 3, 1962,
PP 420-423.

SCI-CHEM
OCT. 62

JPRS 15803

FTD-TT-61-779

9696650 215,000

Tyuryaev, I. Ya. and Vinnik, N. F.
KINETIC RELATIONSHIPS IN THE ONE-STEP VAC-
UUM DEHYDROGENATION OF n-BUTANE TO BUTA-
DIENE. [1964] 9p. 11 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10776

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4,
p. 436-441].

(Chemistry-Physical, TT, v. 11, no. 12)

TT-64-10776

I. Tyuryaev, I. Ya.
II. Vinnik, N. F.

Office of Technical Services

Bogdanova, O. K., Shcheglova, A. P., and Balandin, A. A.

THE CATALYTIC DEHYDROGENATION OF INDIVIDUAL ISOPENTENES INTO ISOPRENE. [1963]

[7]p. 11 refs

Order from OTS or SLA \$1.10

63-18843

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4] p. 442-447.

DESCRIPTORS: *Isoprene, *Pentenes, *Dehydrogenation, Catalysts, Catalysis, *Reaction kinetics, Temperature, Oxides,

Catalytic dehydrogenation kinetics of isopentene isomers to isoprene was studied on an oxide catalyst 560-600 C and a passage rate of 5 hour⁻¹, with steam dilution in vol. ratio 1:3. 2, 3. Reaction rate constants were determined and also the tendency for (Materials--Elastomers, TT, v. 10, no. 12) (over)

63-18843

I. Bogdanova, O. K.
II. Shcheglova, A. P.
III. Balandin, A. A.

Office of Technical Services

63-20214

Kazanaki, B. A., Dorogochinski, A. Z. and others.
DEHYDROGENATION OF ISOPENTANE TO ISO-
AMYLENES ON THE ALUMINA-CHROMIA-POTASSIA
CATALYST. [1963] [13p] 16 refs
Order from OTS or SLA \$1.60

63-20214

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 4,
p. 448-456.

DESCRIPTORS: *Catalysts, Oxides, Potassium
compounds, Chromium compounds, Aluminum com-
pounds, *Pentanes, Dehydrogenation, *Petrenes,
Ethylenes.

A systematic study was made on dehydrogenation of
isopentane to amylenes upon the stationary and
fluidized catalyst K-544, which was stable; catalyst
consumption did not exceed 0.47 wt. % of raw material,
which permits its use as mobile catalyst. Regeneration
(Engineering-Chemical, TT, v. 10, no. 11) (over)

1. Title: Isoamylene
- I. Kazanaki, B. A.
- II. Dorogochinski, A. Z.

Office of Technical Services

TT-64-10107

I. Shulkin, N. I.
II. Timofeeva, E. A.
III. Plotnikov, Yu. N.

Shulkin, N. I., Timofeeva, E. A., Plotnikov, Yu. N.,
and others.
PRODUCTION OF ALKENES C₆-C₁₀ BY CATALYTIC
DEHYDROGENATION OF ALKANES. [1963] 17p 33refs
Order from OCS, SIA, or ETC \$1.60 TT-64-10107

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 457-466. (Abstract available).

DESCRIPTORS: *Alkanes, *Hexanes, Production,
*Alkanes, *Hexanes, *Dehydrogenation, *Catalysis,
Catalysts, Aluminum compounds, Chromium com-
pounds, Potassium compounds, Oxides.

Dehydrogenation of 2-methylpentane, 3-methylpentane
and 2,3-dimethylbutane on alumina-chromia-potassia
catalyst at 500 C and a space velocity of 0.5 hour⁻¹
showed that C₆ alkanes, with a chain shorter than 6 C
atoms, give usually 32 to 40% of alkenes in the cata-
lyzate. Existence of two types active centers. dehy-
(Chemistry--Organic, TT, v. 11, no. 5) (over)

Office of Technical Services

63-20211

Belomestnykh, I. P., Bogdanova, O. K., and
Balandin, A. A.

EFFECT OF STRUCTURE OF HYDROCARBONS ON
THEIR DEHYDROGENATION KINETICS. [1963] [7p]

5refs

Order from OTS or SLA \$1.10

63-20211

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 467-472.

DESCRIPTORS: *Hydrocarbons, *Dehydrogenation,
*Molecular structure, Reaction kinetics.

Catalytic dehydrogenation kinetics was studied on a
series of alkaryls. It was found, that all alkylaromatic
hydrocarbons with branched radicals and with substi-
tuents in the ring dehydrogenate more rapidly. Changes
of free energy, heat content, entropy were determined
during adsorptive displacement from the catalytically
(Chemistry-Organic, TT, v. 10, no. 11) (over)

I. Belomestnykh, I. P.
II. Bogdanova, O. K.
III. Balandin, A. A.

Office of Technical Services

TT-64-10102

Shulkin, N. I. and Naryshkina, T. I.
CATALYTIC DEHYDROGENATION OF PETROLEUM-
METHYLCYCLO-PENTANE. [1963] 10p 20 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10102

I. Title: Methylcyclopentane
I. Shulkin, N. I.
II. Naryshkina, T. I.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 473-479. (Abstract available)

DESCRIPTORS: *Petroleum, *Cyclopentanes, Methyl
radicals, *Dehydrogenation, Catalysis, *Catalysts,
Aluminum compounds, Chromium compounds,
Potassium compounds, Oxides, Activated carbon,
*Cyclopentadiene, Production.

The reaction of dehydrogenation of the methylcyclo-
propane fraction 69-73 C from Baku gasoline of straight
distillation was investigated in the presence of different
oxide catalysts and active carbon. It was established,
that at 600 C, under a pressure reduced to 15-20 mm.
Hg, and at a supply rate of 0.3 hour⁻¹, the yield in
(Chemistry--Organic, TT, v. 11, no. 5) (over)

Office of Technical Services

63-20209

Lavrovskii, K. P., Brodskii, A. M., Musaeu, I. A.,
Sanin, P. I., and Romyantsev, A. N.
PRODUCTION OF HIGHER NORMAL C-OLEFINS BY
HIGH-SPEED CRACKING OF PARAFFINIC PETRO-
LEUM PRODUCTS. [1963] [11p] 15refs
Order from OTS or SLA \$1.60 63-20209

- I. Lavrovskii, K. P.
- II. Brodskii, A. M.
- III. Musaeu, I. A.
- IV. Sanin, P. I.
- V. Romyantsev, A. N.

Trans. of Neftekhimiya (USSR) 1962, v. 2 (no. 4)
p. 487-492

DESCRIPTORS: *Petroleum, Synthetic waxes, Distilla-
tion, *Ethylene, Production, *Hydrocarbons, Gas
chromatography, Gasoline, Decomposition.

Production possibility of unsaturated hydrocarbons,
particularly C-olefins, through high-speed cracking of
paraffinic petroleum products was investigated. It was
found, that the cracking gases contain 30-50% ethy. me.
The fraction 60-175 C. produced in cracking of solid,
(Engineering--Chemical, TT, v. 10, no. 11) (over)

ATS-70K775

Office of Technical Services

63-20213

Manukovskaya, L. G., Solomin, A. V., Suvorov,
B. V., and Rafikov, S. R.
CONTINUOUS METHOD FOR TEREPHTHALIC ACID
PRODUCTION BY LIQUID-PHASE OXIDATION OF
p-XYLENE. [1963] [6p] 18refs
Order from OTS or SLA \$1.10 63-20213

- I. Manukovskaya, L. G.
- II. Solomin, A. V.
- III. Suvorov, B. V.
- IV. Rafikov, S. R.

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 4,
p. 531-539.

DESCRIPTORS: *Xylenes, Oxidation, *Terephthalic
acid, Chemical reactions, Synthesis (Chemistry).

Liquid phase oxidation of p-xylene by molecular oxygen,
with and without n-butyric acid as solvent, was studied
in the presence of cobalt bromide catalyst. It was
found that the oxidation degree in the presence of CoBr_2
is greatly increased by addition of easy oxidable sub-
stances to the reaction mixture (e. g. n-butyraldehyde)
(Engineering-Chemical, TT, v. 10, no. 11) (over)

Office of Technical Services

63-20216

Ustavshchikov, B. F., Farberov, M. I., and
Podgornova, V. A.
SYNTHESIS OF METHACRYLIC ACID ON THE
BASIS OF ISOBUTYLENE. [1963] [10p] 12refs
Order from OTS or SLA \$1.10 63-20216

I. Ustavshchikov, B. F.
II. Farberov, M. I.
III. Podgornova, V. A.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 592-599.

DESCRIPTORS: *Butenes; *Acrylic acids, Methyl
radicals, Synthesis (Chemistry), *Canavanine, Nitrogen
compounds, Oxides, Catalysts; *Acrylic resins.

Reaction conditions of isobutylene with nitrogen tetrox-
ide were found, producing α -oxyisobutyric acid in
~ 80% yield. Nitrozaion and not nitration occurs
under the conditions indicated and the intermediate
 α -nitroisobutyric acid is formed from the isonitro-
socompound α -nitroisobutyric aldehyde. Catalyst
and conditions were chosen for production of metha-
crylic acid in almost quantitative yield. (Author)

(Engineering--Chemical, TT,
v. 10, no. 11)

Office of Technical Services

63-20210

Tepenitsyna, E. P., Dorogova, N. K., and
Parberov, M. I.
STUDY ON THE REACTION OF SELECTIVE OLIGOMERIZATION OF BUTADIENE TO CYCLODODECATRIENE. [1963] [10p] 16 refs
Order from OTS or SLA \$1.10 63-20210

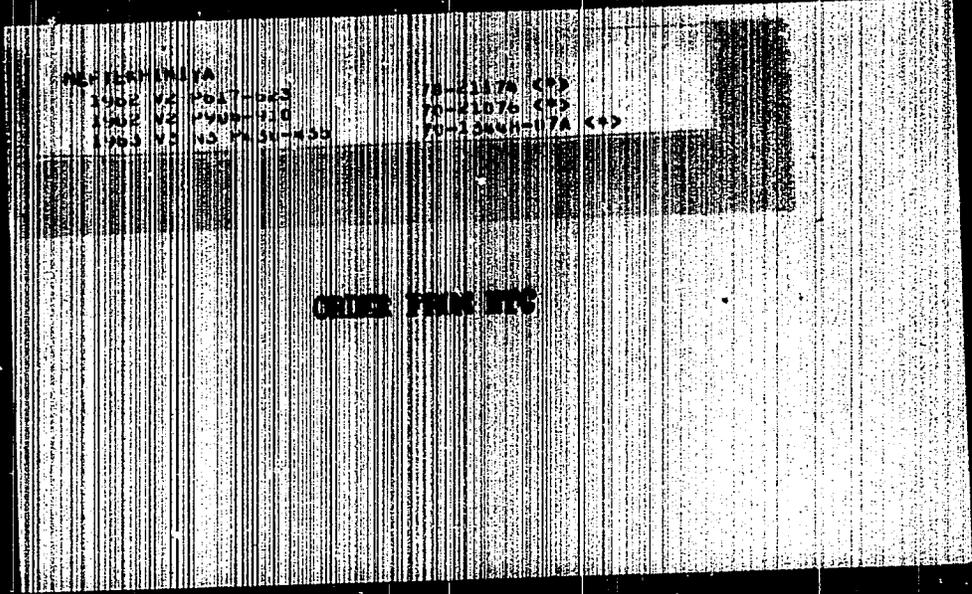
Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 4,
p. 604-610.

DESCRIPTORS: *Butadienes, Chemical reactions,
*Cyclododecatriene, Ziegler catalysts.

A series of catalytic systems for cyclododecatriene (CDT) production was investigated and three systems were the most active: $Al(C_2H_5)_2Cl + TiCl_4$, $Al(C_2H_5)_3 + CrCl_3$; $Al(C_4H_9)_3 + CrCl_3$. All three had high stereospecificity, forming only one of the two CDT forms, as a function of the second component in (Chemistry--Organic, TT, v. 10, no. 11) (over)

- I. Title: Oligomerization
I. Tepenitsyna, E. P.
II. Dorogova, N. K.
III. Parberov, M. I.

Office of Technical Services



Misserov, K. G.
ROLE OF THE CARRIER IN CHROMIA CATALYSTS
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Order from CTS, SLA, or ETC \$1.10 TT-64-10777

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p. 681-687.

(Chemistry--Organic, IT, v. 12, no. 2)

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Catalytic Demethylation of Toluene, by
G. N. Maslyanskiy.
RUSSIAN, par, Neftekhimiya, Vol 2, No 5, 1962,
pp 709-715.
ATS RJ-5383

Sci-Chem
June 70

TT-64-10778

Kamzolkin, V. V., Bashkirov, A. N., Kamzolkina,
E. V., and Lodzik, S. A.
ON SOME RELATIONSHIPS IN THE LIQUID-PHASE
OXIDATION OF OLEFINS. [1964] 7p 22refs
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II. Bashkirov, A. N.
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p. 750-755.

(Chemistry--Organic, TT, v. 12, no. 1)

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Mamedov, Sh., Rzaev, A. S., and Nizker, I. L.
SYNTHESIS OF NEW PLASTICIZERS FROM THE
KEROSENE BOILING RANGE NAPHTHENIC ACIDS.
9p (3 tables omitted) 11 refs.
Order from OTS, SLA, or ETC \$1.10 TT-64-16867

I. Mamedov, Sh.
II. Rzaev, A. S.
III. Nizker, I. L.

Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 3,
p. 789-792.
Partial trans. (p. 789-792) is available from OTS, SLA
or ETC \$1.10 as TT-64-14277 (4p).

(Materials--Plastics, TT, v. 12, no. 4)

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Gulyaev, G. V., Kozlov, G. I. and others.
THE CONVERSION OF METHANE TO ACETYLENE
IN A PLASMA JET. [1963] 3p.
Order from ATS \$5.00 ATS-21Q70R

Trans. of Naftokhimiya (USSR) 1962, v. 2, no. 5,
p. 793-794.

DESCRIPTORS: *Methanes, *Acetylenes, Plasma jets,

(Chemistry--Organic, TT, v. 10, no. 6)

63-1776

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ATS RJ-3959

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Chromatographic Determination of Heats of
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5a Zeolites, by A. V. Kiselev, E. V. Khra-
pova, K. D. Shcherbakova, 9pp.
RUSSIAN, per Neftekhimiya, Vol 2, No 6,
1962, pp 877-884.
CFSTI AFS-76R77R.

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Sci - Chemistry
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TT-64-10105

Blyumberg, E. A., Nerikov, Yu. D., and Smirnov, E. S.
APPLICATION OF GAS-LIQUID CHROMATOGRAPHY FOR THE ANALYSIS OF THE OXIDATION PRODUCTS FROM SOME HYDROCARBONS. [1963] 6p 4cfs
Order from CIPS, SIA, or ETC \$1.10 TT-64-10105

I. Blyumberg, E. A.
II. Nerikov, Yu. D.
III. Smirnov, E. S.

Trans. of *Neftekhimiya* (USSR) 1962, v. 2 [no. 6] p. 397-900. (Abstract available)

DESCRIPTORS: *Hydrocarbons, *Butanes, Oxidation, Peroxides, Alcohols, Carboxylic acids, Esters, *Chromatographic analysis.

The method of gas-liquid chromatography was applied for analysis of the neutral products from liquid-phase oxidation of n-butane. A method of separation and of quantitative determination was developed for the oxidation products of high boiling hydrocarbons, by application of chromatography with microcalorimeter, which permit measurements at 400 C. (Author)

(Chemistry--Analytical, TT, v. 11, no. 5)

Office of Technical Services

TT-64-10096

Karpukhina, G. V. and Maizus, Z. K.
STUDY ON LIQUID-PHASE OXIDATION OF n-DECANE
WITH APPLICATION OF GAS-LIQUID CHROMATOGRAPHY. [1963] 6p 11 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10096

1. Title: Decanones
- I. Karpukhina, G. V.
- II. Maizus, Z. K.

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 6]
p. 901-905. (Abstract available)

DESCRIPTORS: *Decanes, Oxidation, *Ketones,
Synthesis (Chemistry), Chromatographic analysis,

A method was developed for separation of the ketones C7-C10 and of isomeric decanones with the carbonyl-group in positions 2, 3 and 4, by means of gas-liquid chromatography on different liquid immobile-phases. It was shown, that during oxidation of n-decane the ketones with a shorter chain were not formed, i. e. the successive reactions of formation of oxidation products (Chemistry--Analytical, TT, v. 11, no. 9) (over)

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TT-64-14455

Fel'dblyum, V. Sh., Komissarova, G. P.,
Myasnikova, L. D. and others.

ISOPRENE SYNTHESIS FROM PROPYLENE. I. ANALYSIS OF ALKYLALUMINUMS DURING PROPYLENE DIMERIZATION. [1963] 8p 20refs
Order from OTS, SLA, or ETC \$1.10 TT-64-14455

Trans. of Neftekhimiya (USSR) 1963, v. 3 [no. 1]
p. 13-19. (Abstract available)

DESCRIPTORS: *Isoprene, Synthesis (Chemistry),
*Propenes, Polymerization, Catalysts, *Metalorganic
compounds, *Ziegler catalysts, Aluminum compounds.

A comparative evaluation was made of the results, produced by the most used methods for aluminum-alkyls analysis in the process of propylene dimerization. In addition to these methods, a simple procedure of determination of the starting catalyst activity in the (Chemistry--Organic, TT, v. 11, no. 7) (over)

I. Title: Aluminum tri-
isobutide

I. Fel'dblyum, V. Sh.
II. Komissarova, G. P.
III. Myasnikova, L. D.
IV. Title: Analysis...

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The Synthesis of Isoprene from Propylene. 2.
Isomerization of Lipid 2-Methylpentene-1
on Solid Acid Catalysts, by V. Sh.
Fel'dilyan, S. I. Kryukov, M. K. Barbarov,
A. V. Galovsk, I. Ya. Tyuryaev, Lip.
RUSSIAN, per, Neftekhimiya, Vol 3,
No 1, 1963, pp 20-27.
SLA TT-65-10833

333, 812

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Comparison of the Reactivities of Allylben-
zene and of Allylcyclohexene Polymerizations
upon Chromic Catalyst, by A. V. Buzhikov,
E. A. Mishin, A. I. Perelman, 13.
RUSSIAN, per, Neftokhimiya, Vol 3,
No 1, 1963, pp 74-81.
SLA TT-65-10237

Sci
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TT-64-10162

Bakalo, L. A., Krentsel, B. A., and Topchev, A. B.
THE STUDY OF CATALYTIC POLYMERIZATION OF
EPICHLOROHYDRIN. [1964] [18p] (2 figs omitted)

20refs

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Trans. of Neftekhimiya (USSR) 1963, v. 3, p. 206-216.

I. Bakalo, L. A.
II. Krentsel, B. A.
III. Topchev, A. B.

(Chemistry--Organic. TT, v. 11, no. 12)

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Radiation Polymerization of n-Heptene
in Presence of $TiCl_4$, by Yu. A. Kolbanovskiy,
I. S. Polak, et al, 8 pp.
RUSSIAN, per, Neftokhimiya, Vol III, No 2,
1963, pp 222-226, 697341
ITD-TT-65-31

Sci-Phys
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Kryukov, Yu. B., Smirnova, R. M. and others.
THE INTERMEDIATE STAGES OF LIQUID PHASE
OXIDATION OF SECONDARY ALCOHOLS TO
KETONES. [1963] [10]p. 24 refs.
Order from OTS or SLA \$1.10 63-18844

I. Kryukov, Yu. B.
II. Smirnova, R. M.

Trans. of *Nestekhimiya* (USSR) 1963, v. 3, no. 2,
p. 238-245.

DESCRIPTORS: *Ketones, *Alcohols, *Oxidation,
Phase studies, Oxygen, Isotopes, Hydroxyl radicals,
Exchange reactions.

It was established by the example of tetradecanols, that
the liquid-phase oxidation process of higher secondary
alcohols by molecular oxygen, enriched with the heavy
isotope O^{18} , is accompanied by an oxygen isotope ex-
change between the reaction products - ketone and
water. The exchange rate is slower than the reaction
rate, leading to oxygen exchange. Process of sec.
(Chemistry--Organic, IT, v. 10, no. 12) (over)

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Alkylation of Ferrocene by Olefins in the Presence of Compounds of Boron Fluoride and Aluminum Chloride, by Ya. M. Faushtin, T. P. Vishnyakova,
7 pp.
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V. P.
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I. Ivanov, K. I.
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III. Zhakhovskaya, V. P.

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L. V. Kiselev, et al. 15 pp.
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ENIC MIXTURES AND OF n-BUTENES TO BUTADI-
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I. Bogdanov, M. I.

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Initiiertes Kracken von Propan-Isotan-Gemischen,
by A. D. Stepanovich.
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NLL 5413,2835 (Mil-tr-16)

Sci-Mat
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Emanuel, N. M.
EFFECT OF SOLVENTS ON THE MECHANISM OF
LIQUID-PHASE OXIDATION OF n-BUTANE. [1964] 7p
Order from ATS \$13.75 ATS-65R74R

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Denisov, E. T. and Kharitonov, V. V.
KINETIC-EQUILIBRIUM CONCENTRATIONS OF
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Order from ATS \$11.75 ATS-67R74R

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Molecular Oxygen. Part IV, Study of the Oxidation
Mechanism of Cyclododecane by the Inhibition Methods,
by V. G. Bykovchenko, 5 pp.
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Radiation Polymerization of Allyl Alcohol and Some
Other Allyl Derivatives, by S. A. Dolmatov,
L. S. Polak, 9 pp.

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Polysiloxanes as Antifrictional and Anti-
Wear Additives to Petroleum Lubricating Oils,
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SLA IT-66-10616

Sci-M&M
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Sci - M/I
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Viscosity of C₂₄ and C₂₈ Polycyclic
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Sci -
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on Their Action as Admixtures to
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by G. V. Vinogradov, N. S. Nametkin, et al.
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Synthesis and Properties of 1-Silyl-4-
(Vinylsilyl) Benzenes, by E. N. Znamenskaya,
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M. A. Ryashentseva, Yu. I. Derbentsev,
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